

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	319	category\$6 with visualizat\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/25 16:39
L2	207	category\$6 with hierarch\$4 with map\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/25 16:47
L3	45	(category\$6 with hierarch\$4 with map\$4) and ((root or leaf) with node\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/25 16:43
L4	854	("non-leaf" with node\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/25 16:44
L5	5	("non-leaf" with node\$1) with arc\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/25 16:45
L6	856	("non-leaf" with (node\$1 or arc\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/25 16:46
L7	16	("non-leaf" with (node\$1 or arc\$1)) and ("sub-category" or "sub-categories")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/25 16:47
L8	15	("non-leaf" with (node\$1 or arc\$1)) and ("sub-category" or "sub-categories") and hierarch\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/25 16:48



Welcome United States Patent and Trademark Office

[Search Session History](#)[BROWSE](#)[SEARCH](#)[IEEE XPLORE GUIDE](#)[SUPPORT](#)

Thu, 25 Oct 2007, 6:47:29 PM EST

Edit an existing query or compose a new query in the Search Query Display.

## Search Query Display



Select a search number (#) to:

- Add a query to the Search Query Display
- Combine search queries using AND, OR, or NOT
- Delete a search
- Run a search

## Recent Search Queries

- #1 ((measure <near/2> similarity)<in>metadata)
- #2 (((measure <near/2> similarity)<in>metadata)<AND>((measure <near/2> similarity)<in>metadata) and categor\*)
- #3 ((((((measure <near/2> similarity)<in>metadata)<and>((measure <near/2> similarity)<in>metadata) and categor\*))<AND>(((measure <near/2> similarity)<in>metadata)<and>((measure <near/2> similarity)<in>metadata) and categor\*)) and leaf node and non-leaf node)
- #4 ((((((measure <near/2> similarity)<in>metadata)<and>((measure <near/2> similarity)<in>metadata) and categor\*))<AND>(((measure <near/2> similarity)<in>metadata)<and>((measure <near/2> similarity)<in>metadata) and categor\*)) and leaf node and non-leaf node)
- #5 (((measure <near/2> similarity)<in>metadata)<AND>((measure <near/2> similarity)<in>metadata) and categor\*)
- #6 ((measure <near/2> similarity)<in>metadata)
- #7 (((measure <near/2> similarity)<in>metadata)<AND>((measure <near/2> similarity)<in>metadata) and category)
- #8 ((((((measure <near/2> similarity)<in>metadata)<and>((measure <near/2> similarity)<in>metadata) and category))<AND>(((measure <near/2> similarity)<in>metadata)<and>((measure <near/2> similarity)<in>metadata) and category)) and node)
- #9 (((((((measure <near/2> similarity)<in>metadata)<and>((measure <near/2> similarity)<in>metadata) and category))<and>(((measure <near/2> similarity)<in>metadata)<and>((measure <near/2> similarity)<in>metadata) and category)) and node))<AND>((((measure <near/2> similarity)<in>metadata)<and>((measure <near/2> similarity)<in>metadata) and category))<and>(((measure <near/2> similarity)<in>metadata)<and>((measure <near/2> similarity)<in>metadata) and category)) and node) and arc)

Indexed by  
 Inspec<sup>®</sup>

[Help](#) [Contact Us](#) [Privacy & Security](#)  
 © Copyright 2006 IEEE - All Rights Reserved

[Web](#) [Images](#) [Video](#) [News](#) [Maps](#) [Gmail](#) [more ▾](#)[Sign in](#)[Google](#)

category visualization display leaf root child nc

[Advanced Search](#)  
[Preferences](#)**Web Results 1 - 10** of about **151** for **category visualization display leaf root child non-leaf nodes arcs**. (0.30 seconds)

Tip: Save time by hitting the return key instead of clicking on "search"

**Method and system for visualization of clusters and ...**Each **non-leaf node** has two **arcs** that connect the **non-leaf node** to the two .... two **child nodes** because the **root node** represents the combined **category** that ...[www.patentstorm.us/patents/6216134-description.html](http://www.patentstorm.us/patents/6216134-description.html) - 79k - [Cached](#) - [Similar pages](#)**EP1088281 Microsoft european software patent - Method and system ...**An embodiment of the present invention provides a **category visualization** ... Each **non-leaf node** has two **arcs** that connect the **non-leaf node** to the two **nodes** ...[gauss.ffii.org/PatentView/EP1088281](http://gauss.ffii.org/PatentView/EP1088281) - 84k - [Cached](#) - [Similar pages](#)**Apparatus and accompanying methods for visualizing clusters of ...**Each **non-leaf node** has two **arcs** that connect the **non-leaf node** to the two .... When the user selects a top-down browse, **root node** 319 and its two **child** ...[www.freepatentsonline.com/6742003.html](http://www.freepatentsonline.com/6742003.html) - 154k - [Cached](#) - [Similar pages](#)**Visualizing Hierarchies and Collection Structures with Fractal Trees****non-leaf nodes** are mapped to branches and **child nodes** to sub-branches. ... variant of the 3-d fractal tree **visualization** and **category** ...[ieeexplore.ieee.org/jiel5/10607/33516/01592198.pdf?arnumber=1592198](http://ieeexplore.ieee.org/jiel5/10607/33516/01592198.pdf?arnumber=1592198) - [Similar pages](#)**Interactive hierarchical dimension ordering, spacing and filtering ...****display**. It is essential for **visualizing** high dimensional datasets. .... ordering the **children** of **non-leaf nodes** of the dimension hierarchy. ...[ieeexplore.ieee.org/jiel5/8837/27965/01249015.pdf](http://ieeexplore.ieee.org/jiel5/8837/27965/01249015.pdf) - [Similar pages](#)[ [More results from ieeexplore.ieee.org](#) ]**[PDF] InterRing: An Interactive Tool for Visually Navigating and ...**File Format: PDF/Adobe Acrobat - [View as HTML](#)**Child nodes** are drawn within the **arc** subtended by their par- ... The sweep angle of a **non-leaf node** is the aggregation of all. its **children**. ...[davis.wpi.edu/~xmdv/docs/ring.pdf](http://davis.wpi.edu/~xmdv/docs/ring.pdf) - [Similar pages](#)**NicheWorks - Interactive Visualization of Very Large Graphs**Using NicheWorks to **display** standardized correlations allows the user to get a .... The **root node** (R) is drawn at the center, with its **children** on a circle ...[www.willsfamily.org/gwills/NICHEguide/nichepaper.html](http://www.willsfamily.org/gwills/NICHEguide/nichepaper.html) - 33k - [Cached](#) - [Similar pages](#)**[PDF] A Multi-Perspective Software Visualization Environment**File Format: PDF/Adobe Acrobat - [View as HTML](#)When being magnified, a selected **non-leaf node**. will open to **display** its **children nodes** if they are. not already visible; a selected **leaf node** will open ...[www.cs.uvic.ca/~chisel/pubs/p15-wu.pdf](http://www.cs.uvic.ca/~chisel/pubs/p15-wu.pdf) - [Similar pages](#)**Pruning and Visualizing Generalized Association Rules in Parallel ...**

is a directed tree whose **leaf nodes** are items and whose **nonleaf nodes** are item **categories**. We call an item **category**  $\acute{a}$  ...  
doi.ieeecomputersociety.org/10.1109/TKDE.2005.14 - [Similar pages](#)

Interactive Hierarchical Dimension Ordering, Spacing and Filtering ...

ter; **child nodes** are drawn within the **arc** subtended by their parents, and the sweep angle of a **non-leaf node** is equal to the aggregation ...

doi.ieeecomputersociety.org/10.1109/INFVIS.2003.1249015 - [Similar pages](#)

[ [More results from doi.ieeecomputersociety.org](#) ]

[1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) **[Next](#)**

Try [Google Desktop](#): search your computer as easily as you search the web.

---

category visualization display leaf ro

[Search within results](#) | [Language Tools](#) | [Search Tips](#) | [Dissatisfied? Help us improve](#)

---

©2007 Google - [Google Home](#) - [Advertising Programs](#) - [Business Solutions](#) - [About Google](#)

# Patent Storm

[Home](#)
[Browse by Inventor](#)
[Browse by Date](#)
[Links](#)
[Contact Us](#)

Type your search term here



United States Patent 6216134

Bizarre Patents

Patent No. 5,356,330

*Apparatus for Simulating a F*

A self-righting hand-arm con  
adapted to pivot when st  
thereby simulating a "high fiv

## Method and system for visualization of clusters and classifications

US Patent Issued on April 10, 2001

[ABSTRACT](#)
[CLAIMS](#)
[DESCRIPTION](#)
[FULL TEXT](#)

### Inventor(s)

[David E. Heckerman](#)

[Christopher A. Meek](#)

[David Maxwell Chickering](#)

[Usama M. Fayyad](#)

### Data Mining

websites to your database extracting meaningful intelligence  
[www.data-mining.ws](http://www.data-mining.ws)

### Assignee

[Microsoft Corporation](#)

### Design & Engineering -NYC

20 yrs of Award Winning Products. Design, FEA, Patent Analysis  
[www.inch-inc.com](http://www.inch-inc.com)

### Application

No. 104751 filed on 1998-06-25

### Current US Class

[707/104.1](#), [704/202](#), [704/206](#), [704/239](#),  
[705/26](#), [707/10](#), [707/103Y](#), [707/14](#), [707/5](#)

### The Growing Tree of Money

Patent Pending Business Opportunity With an Automated System  
[www.myberrytree.com/bt27704](http://www.myberrytree.com/bt27704)

### Field of Search

[382/225](#), [382/229](#), [701/200](#), [701/202](#), [701/206](#),  
[701/208](#), [704/9](#), [705/10](#), [705/23](#), [705/26](#),  
[705/5](#), [706/2](#), [707/10](#), [707/100](#), [707/103](#),  
[707/2](#), [707/200](#), [707/3](#), [707/4](#), [707/5](#), [709/201](#),  
[709/219](#), [711/157](#), [711/173](#), [713/200](#)

### Examiners

Primary: [Hosain T Alam](#)

Assistant: [Shahid Alam](#)

### Attorney, Agent or Firm

[Michaelson & Wallace](#), [Michaelson](#), [Peter L.](#)

Ads by Google

### Abstract

A system that provides for the graphic visualization of the categories of a collection of records. The graphic visualization is referred to as "category graph." The system optionally displays the category graph as a "similarity graph" or a "hierarchical map." When displaying a category graph, the system displays a graphic representation of each category. The system displays the category graph as a similarity graph or a hierarchical map in a way that visually illustrates the similarity between categories. The display of a category graph allows a data analyst to better understand the similarity and dissimilarity between categories. A similarity graph includes a node for each category and an arc connecting nodes representing categories whose similarity is above a threshold. A hierarchical map is a tree structure that includes a node for each base category

**US Patent References**

along with nodes representing combinations of similar categories.

[5506986](#)

[5537586](#)

[5742816](#)

**Other References**

[5758072](#)

Brunk, Cliff et al., "MineSet: An Integrated System for Data Mining," Data Mining and Visualization, AAAI Press, 1997.

[5768578](#)

[5787414](#)

Cheeseman et al., "Bayesian Classification AutoClass: Theory and Results,"

[5832484](#)

Advances in Knowledge Discovery and Data Mining, AAAI Press, 1995.

[5835905](#)

[5850516](#)

Chickering, David Maxwell et al., A Bayesian Approach to Learning Bayesian

[5873099](#)

Networks with Local Structure [Web Page] 1997;

[5903892](#)

<http://www.lis.pitt.edu/~dsl/UAI97/Chickering.UAI97.html>[Accessed Jun. 17, 1998].

[5911139](#)

[5913205](#)

Duda, Richard O. and Peter E. Hart, "Pattern Classification and Scene

[5915250](#)

Analysis," John Wiley and Sons, London, 1973, Chapters 2,4-6. pp. 10-43 and 85-260.

[5920873](#)

[5953725](#)

Heckerman, David E. Probabilistic Similarity Networks, MIT Press, 1990,

[5991756](#)

Chapter 3 "Theory of Similarity Networks", pp. 53-103.

[6006230](#)

Johnson, Richard A. Dean W. Wichern, Applied Multivariate Statistical Analysis,

[6038559](#)

Prentice-Hall, Inc., Englewood Cliffs, New Jersey, 1982, Chapter 11,

[6088717](#)

"Clustering", pp. 532-560.

[6094654](#)

Rasmussen, Edie, "Clustering Algorithms," in William B. Frakes and Ricardo

**Foreign Patent References**

Baeza-Yates (eds.) Information Retrieval: Data Structures and Algorithms,

WO 90/04231 WO Apr., 1990

Prentice Hall, Englewood Cliffs, New Jersey, 1992. pp. 419-442.

WO 95/31788 WO Nov., 1995

Schachter, Ross D. and Mark A. Peot, "Simulation Approaches to General

WO 95/34884 WO Dec., 1995

Probabilistic Interface on Belief Networks," in Max Herrion et al. (eds.),

WO 96/28787 WO Sep., 1996

Uncertainty in Artificial Intelligence 5, Elsevier Science Publishers B.V., North Holland, 1990, pp. 221-231.

Spiegelhalter, David J. and Robin P. Knill-Jones "Statistical and Knowledge-based Approaches to Clinical Decision-support Systems, with an Application in Gastroenterology," Journal of the Royal Statistical Society, 147:35-77, 1984.

Semio Corporation, [Alta Vista Site] 1998; <http://www.semio.com>.